IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In Re Application of:)
Hirst, et al.) Group Art Unit: 2852
Serial No.: 09/819,925) Examiner: Tran, Hoan H.
Filed: March 28, 2001) Docket No.: 10004411-1
For: Fusing System Including an External Heater)
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450, on	
-Mary Mecas	_
Signature - Mary Meegan	

DECLARATION OF B. MARK HIRST PURSUANT TO 37 C.F.R. §1.131

Commissioner of Patents Washington, D.C. 20231

Sir,

I, B. Mark Hirst, hereby declare that:

- 1) The invention embodied in the above-identified patent application is directed to fusing systems and devices that incorporate such fusing systems.
- 2) I am advised that the United States Patent and Trademark Office has rejected one or more claims presently pending in the above-identified patent application based, at least in part, upon United States Patent No. 6,463,250 to Chen et al. ("Chen '250"). I am further advised that the effective filing date of the Chen '250 patent is October 4, 2000.
- 3) The invention, however, as embodied in the claims of the present invention was completed by myself and my co-inventors in this country prior to October 4, 2000. Specifically,

the invention was "completed" by virtue of reduction to practice prior to the October 4, 2000 filing date of the *Chen '250* patent.

- 4) As evidence that the present invention was so characterized by reduction to practice, Exhibit "A" is attached hereto.
- 5) Exhibit "A" is a copy of notebook entries from my notebook number 4276. As indicated on pages 37-42 of this notebook, an embodiment of the claimed invention was made and tested with positive results. All of these activities occurred prior to the October 4, 2000 critical date. Note that all dates contained on pages 37-42 have been reducted.

I hereby declare that all statements made herein are of my own knowledge are true and that all statements are made on information and belief and are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

in 3, 2003

B. Mark Hirst

THMS/KDEN/HSMYR/RSLY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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The year for	- -
Signature – Mary Meegan	

DECLARATION OF KENNETH E. HEATH PURSUANT TO 37 C.F.R. §1.131

Commissioner of Patents Washington, D.C. 20231

Sir,

I, Kenneth E. Heath, hereby declare that:

- 1) The invention embodied in the above-identified patent application is directed to fusing systems and devices that incorporate such fusing systems.
- I am advised that the United States Patent and Trademark Office has rejected 2) one or more claims presently pending in the above-identified patent application based, at least in part, upon United States Patent No. 6,463,250 to Chen et al. ("Chen '250"). I am further advised that the effective filing date of the Chen '250 patent is October 4, 2000.
- 3) The invention, however, as embodied in the claims of the present invention was completed by myself and my co-inventors in this country prior to October 4, 2000. Specifically,

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- 4) As evidence that the present invention was so characterized by reduction to practice, Exhibit "A" is attached hereto.
- 5) Exhibit "A" is a copy of notebook entries from Mark Hirst's notebook number 4276. As indicated on pages 37-42 of this notebook, an embodiment of the claimed invention was made and tested with positive results. All of these activities occurred prior to the October 4, 2000 critical date. Note that all dates contained on pages 37-42 have been redacted.

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7-7-03 Date Kenneth & Blath

Kenneth E. Heath

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Hirst, et al.) Group Art Unit: 2852
Serial No.: 09/819,925) Examiner: Tran, Hoan H.
Filed: March 28, 2001) Docket No.: 10004411-1
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May Mesque	-
Signature - Mary Meegan	

DECLARATION OF MARK WIBBELS PURSUANT TO 37 C.F.R. §1.131

Commissioner of Patents Washington, D.C. 20231

Sir,

I, Mark Wibbels, hereby declare that:

- 1) The invention embodied in the above-identified patent application is directed to fusing systems and devices that incorporate such fusing systems.
- 2) I am advised that the United States Patent and Trademark Office has rejected one or more claims presently pending in the above-identified patent application based, at least in part, upon United States Patent No. 6,463,250 to Chen et al. ("Chen '250"). I am further advised that the effective filing date of the Chen '250 patent is October 4, 2000.
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- 4) As evidence that the present invention was so characterized by reduction to practice, Exhibit "A" is attached hereto.
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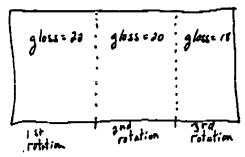
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This system also shows that the teston coatings and silicon rubber of the pressure rollers can operate reliably at temperatures in excess of 210°C. Tests will be conducted with the surface of the external heating roller at 220°C, 230°C, and 240°C prints 100,000 props.

as well as many other designs

One problem with this design is that the silicon rubber and teston Coatings are isulators and are poor heat conductors as well as possess a small capacity to store heat energy at the surface. This causes the gloss of the Sused toner to decrease over the fused page with each full rotation of the pressure rollers.

- Son example for a ledger page the gloss for a solid red secondary accor a



Fortunately with the external heater the system recovers for the next page.

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